PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H0002285	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/US 02/28266	29/08/2002	30/08/2001	
Applicant HONEYWELL INTERNATIONAL	TNC.		
This International Search Report has b	peen prepared by this International Searching Aut g transmitted to the International Bureau.	hority and is transmitted to the applicant	
	ists of a total of6 sheets. by a copy of each prior art document cited in this	s report.	
	the international search was carried out on the ba unless otherwise indicated under this item.	asis of the international application in the	
the international searc	h was carried out on the basis of a translation of the basis of	the international application furnished to this	
was carried out on the basis of contained in the internal filed together with the furnished subsequently the statement that the	ational application in written form. international application in computer readable for y to this Authority in written form. y to this Authority in computer readble form. subsequently furnished written sequence listing of	m.	
	n as filed has been furnished. information recorded in computer readable form	is identical to the written sequence listing has been	
 Z Certain claims were f Unity of invention is 	found unsearchable (See Box I). lacking (see Box II).		
	s submitted by the applicant. blished by this Authority to read as follows:		
the text has been esta	s submitted by the applicant. blished, according to Rule 38.2(b), by this Author the date of mailing of this international search re		
6. The figure of the drawings to be particular as suggested by the a because the applicant	oublished with the abstract is Figure No.	None of the figures.	

International Application No

		PCT/U	S 02/28266
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H02K1/24		, , , , , , , , , , , , , , , , , , ,
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According to	o International Patent Classification (IPC) or to both national class	sification and IPC	
	SEARCHED		
Minimum do IPC 7	becumentation searched (classification system followed by classification	cation symbols)	
Documental	tion searched other than minimum documentation to the extent the	at such documents are included in the	fields searched
	ata base consulted during the international search (name of data	a base and, where practical, search tern	ns used)
WPI Da	ta, PAJ, EPO-Internal		
		·	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
·A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 159 (E-326), 4 July 1985 (1985-07-04) & JP 60 035931 A (HITACHI SEISA 23 February 1985 (1985-02-23)	AKUSHO KK),	1-10
	abstract		
А	PATENT ABSTRACTS OF JAPAN vol. 009, no. 173 (E-329), 18 July 1985 (1985-07-18) & JP 60 046746 A (TOSHIBA KK), 13 March 1985 (1985-03-13) abstract		1-10
Α	DE 44 36 257 A (SIEMENS AG) 4 April 1996 (1996-04-04) abstract; figure 3	,···	1-10
		•	
X Furt	her documents are listed in the continuation of box C.	χ Patent family members ar	re listed in annex.
° Special ca	ent defining the general state of the art which is not	"T" later document published after or priority date and not in conf	the international filing date lict with the application but
consid "E" earlier of filing of	dered to be of particular relevance document but published on or after the international date	cited to understand the princip invention "X" document of particular relevant cannot be considered novel of invention and invention at an whole invention are invention at an whole invention are invention at an area.	ce; the claimed invention r cannot be considered to
which citatio *O* documents	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	"Y" document of particular relevance	ve an inventive step when the ne or more other such docu-
P docume	ent published prior to the international filing date but han the priority date claimed	in the art. "&" document member of the same	
Date of the	actual completion of the international search	Date of mailing of the internati	onal search report
6	December 2002	16/12/2002	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Tangocci, A	

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International Application No
PCT/US 02/28266

	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Tioloran to dam'i to
A	US 5 298 823 A (JOHNSEN TYRONE A) 29 March 1994 (1994-03-29) abstract; figures 1-4	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 007, no. 292 (E-219), 27 December 1983 (1983-12-27) & JP 58 165638 A (TOKYO SHIBAURA DENKI KK), 30 September 1983 (1983-09-30) abstract	1-10
A	US 5 325 009 A (CAPION ROBERT L ET AL) 28 June 1994 (1994-06-28) column 4, line 52 -column 5, line 50; figure 2	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 299142 A (SHINKO ELECTRIC CO LTD), 29 October 1999 (1999-10-29) abstract	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 005, no. 055 (E-052), 16 April 1981 (1981-04-16) & JP 56 006636 A (MATSUSHITA ELECTRIC WORKS LTD), 23 January 1981 (1981-01-23) abstract	1-10
Α	PATENT ABSTRACTS OF JAPAN vol. 009, no. 185 (E-332), 31 July 1985 (1985-07-31) & JP 60 055846 A (TOYO DENKI SEIZO KK), 1 April 1985 (1985-04-01) abstract	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 004, no. 141 (E-028), 4 October 1980 (1980-10-04) & JP 55 094549 A (TOSHIBA CORP), 18 July 1980 (1980-07-18) abstract	1-10

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

The subject-matter of claim 1 is not entirely supported in the description in the sense of Article 6 PCT: in the description, middle of page 7, it is said that the supports (170a-d) are meant to provide proper support, alignment and retention of the end turns (160a-d) as they curve around the spokes (130a-d). It is further said that said supports surround the corresponding spokes on three of their sides. In other words, from the description and the figures it is clear that said supports are positioned at the AXIAL ENDS of the spokes and provide support for the END TURNS of the coil windings, whilst in claim 1 it is merely said that said plurality of supports are positioned proximate respective spokes, and that coils of wire windings are wrapped around said supports. Nowhere in the claims are the end turns mentioned. Therefore claim 1 is not fully supported by the description. Moreover, another contradiction between the claims and the description concerns the reference number (190a-d) which has been attributed to CAP HATS in the description, bottom of page 7 to bottom of page 8, whilst in claim 1 the reference number (190a-d) has been given to CAP DEVICES. which are said to include CAP HATS in claim 5. This is not clear in the sense of Article 6 PCT, because cap devices are not mentioned in the description, and the cap hats (190a-d) are first mentioned in claim 5. Moreover, from the wording of claim 1 it is not entirely clear what is meant by "ends of the spokes (130a-d)", middle of claim 1: said ends could be radial ends or axial ends. Article 6 PCT.

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Box I	Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
	see FURTHER INFORMATION sheet PCT/ISA/210				
з	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:				
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark	on Protest The additional search fees were accompanied by the applicant's protest.				
	No protest accompanied the payment of additional search fees.				

Information on patent family members

International Application No PCT/US 02/28266

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 60035931 A	23-02-1985	NONE	
JP 60046746 A	13-03-1985	NONE	
DE 4436257 A	04-04-1996	DE 4436257 A1	04-04-1996
US 5298823 A	29-03-1994	NONE	
JP 58165638 A	30-09-1983	JP 1621650 C JP 2047193 B	09-10-1991 18-10-1990
US 5325009 A	28-06-1994	NONE	
JP 11299142 A	29-10-1999	NONE	
JP 56006636 A	23-01-1981	NONE	
JP 60055846 A	01-04-1985	NONE	
JP 55094549 A	18-07-1980	NONE	